Amendments to the Claims:

Claims 1, 5 and 12 are amended as set forth hereinafter.

Listing of Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (Currently Amended) A probe head for a coordinate measuring apparatus, the probe head comprising:

a yielding part;

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<u>a plurality of</u> measuring systems for measuring the <u>a</u> deflection of said yielding part in respective directions;

a damping device for damping said yielding part in a pregiven direction; and,

said damping device including at least one friction brake for generating a friction force which can be to effect said damping with said friction force being electrically changed changeable.

- 2. (Original) The probe head of claim 1, said friction brake including a flag and an electromagnet for electromagnetically drawing said flag to said electromagnet.
- 3. (Original) The probe head of claim 2, wherein said flag is a first flag and said damping device includes a second flag; and, said first and second flags coact electromagnetically with said

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electromagnet.

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4. (Original) The probe head of claim 3, wherein at least one of said first and second flags is reinforced in the region of said electromagnet.

- 5. (Currently Amended) The probe head of claim 1 claim 2, said damping device further comprising clamping means for clamping said flag.
- 6. (Original) The probe head of claim 5, wherein said flag has a side facing away from said electromagnet; and, said clamping means comprises a plate disposed on said side of said flag in spaced relationship thereto; a holder; and, said plate is resiliently mounted on said holder so as to permit a displacement relative thereto when said plate is drawn by said electromagnet to clamp said flag therebetween.
- 7. (Original) The probe head of claim 6, wherein said plate has a thickness greater than the thickness of said flag.
- 8. (Original) The probe head of claim 1, further comprising an electronic controller for electrically adjusting said friction force of said friction brake.
- 9. (Original) The probe head of claim 8, said electronic controller including means for adjusting said friction force in proportion to the time-dependent derivative of the measured

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deflection in a particular direction (x, y, z).

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- 10. (Original) The probe head of claim 9, said electronic controller including means for clamping said probe head for a short time to counter a rebound of the probe head during a contacting operation.
- 11. (Original) The probe head of claim 8, said friction brake including a flag and an electromagnet coacting with said flag; and, said electronic controller including means for applying an alternating current to said electromagnet for generating a low damping.
- 12. (Currently Amended) The probe head of claim 8, said friction brake including a flag; an electromagnet coacting with said flag; and, a spring-suspended plate in spaced relationship to said flag; said electronic controller including means for clamping said friction brake by first applying a voltage (U_{SP}) above a threshold plate voltage (U_{plate}) so that said spring-suspended plate is pulled toward said electromagnet and then dropping said voltage (U_{SP}) to below said threshold voltage (U_{plate}) after said spring-suspended plate has been pulled toward said electromagnet.
 - 13. (Original) The probe head of claim 8, further comprising a measuring force generator drivable by said electronic controller; and, for clamping said yielding part in a pregiven desired position of a corresponding one of said measuring systems, said

- electronic controller functioning to clamp said friction brake in a desired position of said yielding part; and, causing said measuring force generator to generate pulse-like measurement forces opposite to the direction of the deflection relative to said desired position until said corresponding one of said measuring systems is in its zero position.
 - 14. (Original) The probe head of claim 8, wherein said electronic controller increases the friction force of said friction brake or clamps said friction brake during acceleration operations of said probe head.